Zanite® Plus polymer composite is a blend of pure silicon dioxide ceramic (99.8%) quartz aggregate, specially formulated high-strength epoxy resin and proprietary additives. The natural elliptical shape of quartz is ideal for casting intricate structures. The material is also used in Europe in the mid-1970’s with machine tool builders. In 2009, BaseTek, LLC purchased the technology and assigned the legal marketing rights to the trade name Zanite® from the Zanite® Tool Works, Inc. (35) Rockland division located in Clarksburg, OH.

Beginning in 2013, BaseTek began a program to study and enhance the Zanite® formulation previously acquired. BaseTek collaborated with a number of internal/external resources to consult and re-formulate the Zanite® polymer blend. Well over a year was spent evaluating new epoxies, fillers, reinforcing agents, processing methodologies.

In early 2015, we re-branded our material Zanite® Plus. Through documented testing we can certify Zanite® Plus meets or exceeds the original inherited Zanite® formulation in every category. BaseTek utilizes our own in-house testing equipment along with outside testing labs to verify the material properties. Specific properties are listed below.

### ADVANTAGES OF ZANITE® PLUS

- **Fast Delivery**
  - Our polymer bases can be cast and shipped within 24 hours of receiving an order. Bases are delivered ready to assemble for final equipment. Short lead times reduce planning, within days of receiving an order. Bases are delivered ready to install, faster. This process easily allows plastic and metals to merge in the same casting.

- **Vibration Damping**
  - Tests prove our polymer composite provides over 24X the damping of an equal geometry of steel. In addition, Zanite® Plus can be cast in many complex solid geometries resulting in significant damping over a conventional hollow cast frame or welded assembly. Vibration reduction leads to improved system performance and tool life. Zanite® Plus also deters sound.

- **Design Flexibility**
  - It’s easy to integrate conduit piping, custom linear rails, cutting fluid trays, hydraulic fluid tanks and threaded inserts. Wall thickness can vary and multiple components can be integrated into a single casting. The process easily allows plastic and metal to merge in the same casting.

- **Cost Effective**
  - Ideal for pre-casting operations such as machining, heat treating, stress relieving and even painting can be eliminated. Back deliveries reduce inventories. In-house material blending and controlled back-mixing allows for precise, consistent quality from casting to casting.

### WHAT ARE THE PROPERTIES OF ZANITE®?

Zanite® Plus polymer composite is a blend of pure silicon dioxide ceramic (99.8%) quartz aggregate, specially formulated high-strength epoxy resin and proprietary additives. The natural elliptical shape of quartz is ideal for casting intricate structures. The technology migrated to the USA in the early 1980’s with machine tool builders. In 2000, BaseTek, LLC purchased the technology and assigned the legal marketing rights to the trade name Zanite® from the Zanite® Tool Works, Inc. (35) Rockland division located in Clarksburg, OH.

### ROTATING EQUIPMENT BASEPLATES

Keeping casting equipment level is essential. BaseTek Zanite® Plus Polymer Concrete Baseplates support steel baseplates in every way. The difference is Zanite® Plus.

Using PoxyBase with Zanite® Plus guarantees you unmatched surface flatness compared to conventional Steel designs and common Vinyl Ester Concrete materials. Zanite® Plus provides significant vibration damping, greater thermal stability, more resistance to twisting and displacing and superior corrosion resistance. It is easier and less costly to install, plus requires no maintenance.

### CUSTOM POLYMER CASTINGS

BaseTek, LLC 14975 White Road, Middlefield, OH 44062 USA www.basetek.com 877.712.BASE (2273) E-mail: info@basetek.com
ABOUT THE COMPANY

BaseTek, LLC. Based in 2001. Specializes in the design and build of proven polymer composite bases and filled weldments for a broad range of industries. We are the market leader in polymer concrete baseplates for the manufacturing equipment industry. BaseTek offers a complete line of pre-engineered and custom baseplates, along with accessories for all types of process pumps and specifically rotating equipment.

BaseTek’s company owned facility custom built in 2012 is specifically for the manufacture of polymer castings. We are staffed with industry experts offering some of the most combined years of polymer casting experience in the USA today. Balanced vertical integration allows for efficient designing, manufacturing, and inspection of castings to match any size and shape most applications demand. Computer controlled batch mixing systems, precision tooling and CMM inspection equipment insure consistent quality and reliable castings.

MATERIAL TESTING

• 26,000+ square foot manufacturing facility
• CNC inspection and paint capabilities
• Material traceability with manufacturing routers
• In-house material verification capability

STANDARD AND CUSTOM DESIGNED INSERTS:

• Cast-in custom designed threaded bases for mounting equipment.
• Polishing lines cast in place to provide casting, k nabration, air & wire ways.
• Steel plates can be used to create long and extremely flat mounting surfaces.
• Internal box wash, vibratory, and low cost equipment must be able handle a harsh environment of a typical shop floor.

BaseTek offers proper weldment preparation and delivery can be a few days with proper notice and account setup.

WE HAVE FILLED WELDMENTS WITH A FEW HUNDRED POUNDS OF POLYMER TO WELDMENTS REQUIRING SEVERAL THOUSAND POUNDS:

• BaseTek offers proven weldment preparation and quick turnaround for your application.
• Delivery can be a few days with proper notice and account setup.

WE OFFER COMBINATION DEPENDING ON THE APPLICATION & DESIGN.

BaseTek offers the benefit of polymer for vibration damping without the cost of cast iron, cast aluminum.

Cutting Tool Grinder

800 lb. base for a nanolithography machine

Machine tool bases and support structures made with Zanite® Plus offer quick operation, no deterioration from cutting fluids, improved machined surfaces and improved cutting tool life.

Machine tool bases and support structures made with Zanite® Plus offer quick operation, no deterioration from cutting fluids, improved machined surfaces and improved cutting tool life.

Large steel weldments filled with Zanite Plus polymer composite. Dampen both noise and vibration.

ZANITE® PLUS POLYMER COMPOSITE

FILLED WELDMENTS AND IRON CASTINGS:

BaseTek’s goal is to consistently supply its customers with the highest quality part at the lowest possible cost.

BaseTek incorporates the latest casting technologies and can aid in the development of tooling and part design through modern CAD/CAM capability including Solid Modeling and sophisticated Finite Element Analysis software.

BAUSSL’s company owned facility custom built in 2012 is specifically for the manufacture of polymer castings. We are staffed with industry experts offering some of the most combined years of polymer casting experience in the USA today. Balanced vertical integration allows for efficient designing, manufacturing, and inspection of castings to match any size and shape most applications demand. Computer controlled batch mixing systems, precision tooling and CMM inspection equipment insure consistent quality and reliable castings.

Zanite® Plus is comprised of a proprietary polymer cast-in-threaded inserts used in applications requiring vibration damping, thermal stability, high performance, and overall improved tool life.

Zanite® Plus offers the benefit of polymer filled weldments for vibration damping without the cost of cast iron, cast aluminum.

Zanite® Plus is a trademark of BaseTek, LLC.

Zanite® Plus offered for automotive, precision tooling, and capital equipment manufacturers.

Zanite® Plus is a proprietary polymer designed for vibration damping, thermal stability, high performance, and overall improved tool life.

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ABOUT THE COMPANY

BaseTek, LLC, founded in 2001, specializes in the design and built of polymer composite bases and filled weldments for a broad range of industries. We are the market leader in polymer concrete baseplates and rotate equipment industry. BaseTek offers a complete line of pre-engineered and custom baseplates, along with accessories for all types of processes pumps and specialty rotating equipment.

BaseTek’s company owned facility custom built in 2012 is specifically for the manufacture of polymer castings. We are staffed with industry experts offering some of the most combined years of polymer casting experience in the USA today. Balanced vertical integration allows for efficient design, manufacturing, and inspection of castings to meet any size and shape using all materials. We can meet all material traceability with manufacturing, and inspection of castings to meet any size and shape using all materials.

BaseTek incorporates the latest casting technologies and can aid in the development of tooling and part design through modern CAD/CAM capabilities including Solid Modeling and sophisticated Finite Element Analysis software. BaseTek’s goal is to consistently supply its customers with the highest-quality part at the lowest possible cost.

FINITE ELEMENT ANALYSIS

BaseTek offers in-house service or can provide quick turnaround and low cost of a mold. Typical applications include: CMMs, machine tool bases and support structures made with Zanite Plus. We offer quieter operation, no deterioration from vibration. Large steel weldments filled with Zanite Plus polymer composite. Dampen both noise and vibration.

Machine tool bases and support structures made with Zanite Plus offer quieter operation, no deterioration from cutting fluids, improved machined surfaces and improved cutting tool life.

ZANITE® PLUS POLYMER COMPOSITE FILLED WELDMENTS AND IRON CASTINGS:

Machine tool bases and support structures made with Zanite Plus offer quieter operation, no deterioration from cutting fluids, improved machined surfaces and improved cutting tool life.

WE HAVE FILLED WELDMENTS WITH A FEW HUNDRED POUNDS OF POLYMER TO WELDMENTS REQUIRING SEVERAL THOUSAND POUNDS:

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ABOUT THE COMPANY

BaseTek, LLC. Specializes in the design and built of polymer composite bases and filled weldments for a broad range of industries. We are the market leader in polymer concrete baseplates for the machine tool industry. BaseTek offers a complete line of pre-engineered and custom baseplates, along with accessories for all types of gauging tools and specifically rotating equipment.

BaseTek’s company owned facility custom built in 2012 is specifically for the manufacture of polymer castings. We are staffed with industry experts offering over 100 combined years of polymer casting experience in the USA. Today, Basaltic vertical integration allows for efficient designing, manufacturing, and inspection of castings to match any size and shape most applications demand.

BaseTek offers in-house material verification capability including n-house material verification capability, NC inspection and paint capabilities, material traceability with manufacturing systems, precision tooling and Computer controlled batch mixing to create long and extremely fast cycle times. Basaltic incorporates the latest casting technologies and can aid in the development of tooling and part design through modern CAD/CAM capabilities including Solid Modeling and sophisticated Finite Element Analysis software. Basaltic’s goal is to consistently supply its customers with the highest-quality part at the lowest possible cost.

MATERIAL TESTING

• 26,000+ square foot manufacturing facility
• CMM inspection and paint capabilities
• Material traceability with manufacturing systems
• In-house material verification capability

STANDARD AND CUSTOM DESIGNED INSERTS:

• Cool-to-the-touch custom designed threaded baseplates for mounting equipment.
• Polytubing lines cast in place to provide coolant, lubrication, air & wire ways.
• Steel plates can be used to create long and extremely flat mounting surfaces.
• Internal bore welds, weld, vee, and fork tubes.

Bases are manufactured of Zanite Plus, a proprietary polymer concrete material also referred to as a mineral casting. Parts are cast to 0.001” tolerances while offering mechanical properties that in many applications replace traditional materials such as iron, aluminum, and steel. Zanite Plus is extremely environmentally friendly, and offers short production times.

BaseTek, LLC, founded in 2001, specializes in the design and build of polymer composite bases and filled weldments for all types of process pumps and specialty filled weldments build of proven BaseTek, LLC, material such as iron, aluminum, and steel. Zanite Plus, a proprietary polymer composite for field applications. We offer in-house service or can provide composite for field applications.

WE HAVE FILLED WELDMENTS WITH A FEW HUNDRED POUNDS OF POLYMER TO WELDMENTS REQUIRING SEVERAL THOUSAND POUNDS:

• BaseTek offers proper weldment preparation and quick turnaround for your application.
• Delivery can be a few days with proper notice and access setup.

WE OFFER CUSTOM WELDMENTS WITHIN A FEW HUNDRED POUNDS OF POLYMER TO WELDMENTS REQUIRING SEVERAL THOUSAND POUNDS:

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MACHINE TOOL APPLICATIONS:

Typical applications include high speed machining cells, turning centers, CNC knee mills, rolling machines, waterjet cutting machines, laser cutting machines, grinders and industrial measurement & testing equipment. BaseTek’s goal is to consistently supply its customers with the highest-quality part at the lowest possible cost.

WE OFFER ENGINEERING SERVICES:

• CAD capability including Solid Modeling and sophisticated Finite Element Analysis software.
• Aid in the development of tooling and part design through modern CAD/CAM capabilities including Solid Modeling and sophisticated Finite Element Analysis software.
• Resource engineering services to help OEM’s achieve their goals.

WE PROVIDE METROLOGY AND TESTING INSTRUMENTS:

Typical applications include: CMMs, surface form, roundness and contour testing instruments. As well as nanometer-scale manufacturing and testing platforms for life sciences, pharmaceutical, and engineering applications.

ZANITE® PLUS POLYMER COMPOSITE FILLED WELDMENTS AND RUN CASTINGS:

• Excellent for low volumes and custom applications.
• Offers the benefit of polymer for vibration-damping without the cost of a metal.
• Quick turnaround and low cost compared to cast iron, cast aluminum.

ZANITE® PLUS POLYMER COMPOSITE THERMOCOUPLED BASEPLATES:

• BaseTek offers proper weldment preparation and quick turnaround for your application.
• Delivery can be a few days with proper notice and access setup.

ZANITE® PLUS POLYMER COMPOSITE FLANGED ELECTRICAL ENCLOSURES:

• Excellent for electrical enclosures.
• Offers the benefit of polymer for wall thickness without the cost of a metal.
• Quick turnaround and low cost compared to steel or aluminum.

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METROLOGY AND PHARMACEUTICAL APPLICATIONS:

Typical applications include: CMMs, surface form, roundness and contour testing instruments. As well as nanometer-scale manufacturing and testing platforms for life sciences, pharmaceutical, and engineering applications.

SEMICONDUCTOR APPLICATIONS:

Typical applications include: semiconductor printing machines, wire and die bonding, wafer inspection and testing, photolithography, laser PCB drilling machines, pick and place machines, surface mounters, wafer handling systems, die stacking, die-attach, flip-chip, and dispensing equipment.

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**WHAT IS ZANITE PLUS?**

Zanite® Plus polymer composite is a blend of pure silicon dioxide ceramic (99.8%) quartz aggregate, specially formulated high-strength epoxy resin and proprietary additives. The natural elliptical shape of quartz is ideal for casting intricate structures. Often this material is referred to as polymer concrete or mineral casting.

Zanite® Plus replaces traditional materials such as iron, aluminum, and steel in the manufacture of many structural components. Castings are manufactured to finish tolerances that minimize the need for secondary finishing operations. Our polymer composite is achieved through the design engineer throughout the world as an alternative material due to its excellent design flexibility, mechanical properties, and short production time.

The epoxy based mineral casting or polymer concrete castings used for machine bases originated in Europe in the mid 1970’s. Projected development of high strength and high performance polymer concrete baseplates for the European machine tool industry started in 1976. In 1980 BaseTek purchased the technology and were the first to assign the legal marketing rights to the technology in North America from Swiss Tool Works, Inc. (STW) based in Switzerland.

In early 2008 we re-branded our material Zanite® Plus. Through documented testing we can certify Zanite® Plus meets or exceeds the original manufacturer Zanite formulation in every category. BaseTek utilizes our own in-house testing equipment along with outside testing labs to verify the material properties. Specific properties are listed below.

### ADVANTAGES OF ZANITE® PLUS

- **Easy to find tolerances**
  - Zanite® Plus precisely replicates finishing tolerances that are essential for many secondary machining operations. Cost effective alternatives to traditional materials such as iron, aluminum and steel which typically require secondary machining or finishing operations.
- **Vibration damping**
  - Tests prove our polymer composite provides over 24X the damping of an equal geometry of steel. In addition, Zanite® Plus can be cast in many complex solid geometries resulting in significant damping over a conventional hollow cast frame or welded assembly. Vibration reduction leads to improved system performance and less fatigue. Zanite® Plus also defies science.
- **Design flexibility**
  - It’s easy to integrate conduit piping, custom linear rails, cutting fluid trays, hydraulic fluid tanks and threaded inserts. Wall thickness can vary and multiple components can be combined into a single casting. The process easily allows plastics and metals to merge in the same casting.
- **Cost effective**
  - Ideal for pre-casting operations such as machining, heat treating, stress relieving and even painting can be eliminated. Stack deliveries reduce inventory. In-house material blending and controlled back-mixing allows for precise, consistent quality foundry casting.
- **Fast delivery**
  - Our polymer bases can be cast and shipped within days of receiving an order. Bases are delivered ready to assemble and fabricate. Short lead times reduce planning inventory and help speed your product to market. Macromold tooling provides a fast proof of concept for rapid prototyping and new product development.
- **Corrosion resistant**
  - Zanite® Plus offers enhanced chemical and corrosion resistance to most common acids, alkalis, solvents, oils, and cutting fluids. Zanite® Plus resists the need for painting or expensive protective coatings.
- **Environmental friendliness**
  - Castings are made using a cold casting process requiring a minimal amount of energy consumption. Old castings are landfill friendly and require no special disposal requirements.
- **Reliable longevity**
  - Zanite® Plus castings are designed in conjunction with the life of the machine, if not longer. Improved thermal stability, high compressive strength and minimal moisture absorption make Zanite® Plus an excellent option.

### WHAT ARE THE PROPERTIES OF ZANITE®?

- **Tensile strength**
  - For today’s modern machine designs.
- **Flexibility, mechanical properties, and short production time.**
- **The technology migrated to the USA in the early 1980’s with machine tool builders. In 2000, BaseTek purchased the technology and was the first to assign the legal marketing rights to the technology in North America from Swiss Tool Works, Inc. (STW) based in Switzerland.**
- **Beginning in 2013 BaseTek began a program to study and enhance the Zanite® formulation previously acquired.**
- **BaseTek offers a combined internal resources and proprietary consultants to facilitate a reformulation of the Zanite® polymer blend.**
- **Zanite® Plus can be cast in many complex solid geometries resulting in significant damping over a conventional hollow cast frame or welded assembly.**
- **Vibration reduction leads to improved system performance and less fatigue.**
- **Zanite® Plus also defies science.**
- **It’s easy to integrate conduit piping, custom linear rails, cutting fluid trays, hydraulic fluid tanks and threaded inserts. Wall thickness can vary and multiple components can be combined into a single casting. The process easily allows plastics and metals to merge in the same casting.**
- **Zanite® Plus precisely replicates finishing tolerances that are essential for many secondary machining operations.**
- **Cost effective alternatives to traditional materials such as iron, aluminum and steel which typically require secondary machining or finishing operations.**
- **Tests prove our polymer composite provides over 24X the damping of an equal geometry of steel.**
- **In addition, Zanite® Plus can be cast in many complex solid geometries resulting in significant damping over a conventional hollow cast frame or welded assembly.**
- **Vibration reduction leads to improved system performance and less fatigue. Zanite® Plus also defies science.**
- **Design flexibility accommodates the need for secondary finishing operations.**
- **Our polymer composite is achieved through the design engineer throughout the world as an alternative material due to its excellent design flexibility, mechanical properties, and short production time.**

### WHAT ARE THE PROPERTIES OF ZANITE®?

- **Compressive strength**
  - 18,000 psi 124 N/mm²
- **Density**
  - 0.081 lb/in³ 2.2 kg/dm³
- **Thermal expansion**
  - 0.01% 0.01%
- **Water absorption**
  - 0.25 0.25
- **Vibration damping**
  - See comparative chart below.
- **Most post-casting operations such as machining, heat treating, stress relieving and even painting can be eliminated.**
- **Stack deliveries reduce inventory.**
- **In-house material blending and controlled batch mixing allows for precise, consistent quality from casting to casting.**
- **Proven linear rails, cutting fluid trays, hydraulic fluid tanks and threaded inserts. Wall thickness can vary and multiple components can be combined into a single casting.**
- **The process easily allows plastics and metals to merge in the same casting.**
- **Zanite® Plus precisely replicates finishing tolerances that are essential for many secondary machining operations.**
- **Cost effective alternatives to traditional materials such as iron, aluminum and steel which typically require secondary machining or finishing operations. BaseTek utilizes our own in-house testing equipment along with outside testing labs to verify the material properties. Specific properties are listed below.**

### TYPICAL INSTALLATION COSTS*

<table>
<thead>
<tr>
<th>BaseTek Cost</th>
<th>Fabricator Cost</th>
<th>Comparative Cost</th>
<th>Savings</th>
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<td>FAB STEEL</td>
<td>PRE BASE</td>
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<tr>
<td>$0</td>
<td>GROUTED</td>
<td>FAB STEEL</td>
<td>$101</td>
</tr>
</tbody>
</table>

### VIBRATION DAMPING

Comparative costs include baseplate, 316SS drip pan, sandblast and 2-part epoxy consumption. Old castings are landfill friendly and require no special disposal requirements. Keeping rotating equipment level is essential. BaseTek Zanite® Plus polymer Concrete Baseplates outperform steel baseplates in every way. The difference is Zanite® Plus.

### CUSTOM QUICKBASE

Available in pre-engineered ANSI/ASME sizes. 70% reduction in overall size and net weight. 80% less surface flatness. 60% faster, lower cost installation. 70% less installation time. Eliminates many own post-casting operations. BaseTek Zanite® Plus eliminates the need for painting or expensive protective coatings.

### CUSTOM POLYMER CASTINGS

Many components can be combined into a single casting. The process easily allows plastics and metals to merge in the same casting.

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The epoxy-based mineral casting or polymer concrete castings that have originated in Europe in the mid-1970's. Zanite® Plus replaced traditional materials such as iron, aluminum, and steel in the manufacturing of many structural components. Castings are manufactured to finish tolerances that minimize the need for secondary finishing operations. The polymer composite is accepted by design engineers throughout the world as an alternative material due to its excellent design flexibility, mechanical properties, and short production time. The epoxy-based mineral casting or polymer concrete castings used for machine bases originated in Europe in the mid-1970's.

**WHAT IS ZANITE PLUS?**

Zanite® Plus polymer composite is a blend of pure silicon dioxide ceramic (99.5%) quartz aggregate, specially formulated high-strength epoxy resin and proprietary additives. The natural elliptical shape of quartz is ideal for casting intricate structures. Often, this material is referred to as polymer concrete or mineral casting.

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**ADVANTAGES OF ZANITE PLUS**

- **EASY TO FILL TOLERANCES**
  Zanite® Plus precisely replicates tooling allowing the read for many secondary machining operations. Cost effective alternative to traditional materials such as iron, aluminum and steel which typically require secondary machining or grinding operations.

- **VIBRATION DAMPING**
  Tests prove our polymer composite provides over 200% the damping of an equal quantity of steel. In addition, Zanite® Plus can be cast in many complex solid geometries resulting in significant damping over a conventional hollow cast frame or welded assembly. Vibration reduction leads to improved system performances and tool life. Zanite® Plus also reduces noise.

- **DESIGN FLEXIBILITY**
  It is easy to integrate conduit piping, custom linear rails, cutting fluid trays, hydraulic fluid tanks and threaded inserts. Wall thickness can vary and multiple components can be combined into a single casting. The process easily allows plastics and metals to merge in the same casting.

- **ECONOMICAL PRODUCTION**
  Ideal post-casting operations such as machining, heat treating, stress relieving and even painting can be eliminated. Back fills are reduced. In-house material blending and controlled back-mixing allows for precise, consistent quality from casting to casting.

- **FAST DELIVERY**
  Our polymer bases can be cast and shipped within days of receiving an order. Bases are delivered ready to assemble to finish equipment. Short lead times reduce planning inventory and help speed your product to market. Manufacturing provides a fast proof of concept for rapid prototyping and new product development.

- **CORROSION RESISTANT**
  Zanite® Plus offers enhanced chemical and corrosion resistance to most common acids, alkalis, solvents, and cutting fluids. Zanite® Plus prevents the need for painting or expensive protective coatings.

- **ENVIRONMENTAL FRIENDLY**
  Castings are produced in a cold casting process requiring a minimal amount of energy consumption. Old castings are landfill friendly and require no special disposal requirements.

- **LIFETIME LONGEVITY**
  Zanite® Plus castings are designed in conjunction with the life of the machine, if not longer. Improved thermal stability, high compressive strengths and minimal moisture absorption make Zanite® Plus an excellent option.

**WHAT ARE THE PROPERTIES OF ZANITE?**

Zanite® Plus polymer composite is a blend of pure silicon dioxide ceramic (99.5%) quartz aggregate, specially formulated high-strength epoxy resin and proprietary additives. The natural elliptical shape of quartz is ideal for casting intricate structures. The technology migrated to the USA in the early 1980's with machine tool builders. In 2000, BaseTek, LLC purchased the technology and more recently acquired the legal marketing rights to the brand name Zanite® from Illinois Tool Works, Inc. (ITW)出去 division located in Chardon, OH.

In 2001, we branded our natural Zanite® Plus. Through documented testing we can certify Zanite® Plus meets or exceeds the original in-house Zanite formulation in every category. BaseTek utilizes our own in-house testing equipment along with outside testing labs to verify the material properties. Specific properties are listed below:

**HIGH STRENGTH RESIN**

- **Tensile Strength**
  1,900 psi (13.1 N/mm²)

- **Tensile Modulus**
  4,700 psi (13.1 N/mm²)

**CHEMICAL RESISTANCE**

- **Resistance to Chemicals**
  Satisfactory to most chemicals and solvents and attacks.

**THERMAL EXPANSION**

- **Coefficient of Expansion**
  0.00025 0.00025

**DAMPING RATIO**

- **Dynamic Damping**
  0.25 0.25

**MODULUS OF ELASTICITY**

- **Young’s Modulus**
  13.1 N/mm²

**COMPRESSIVE STRENGTH**

- **Compressive Strength**
  0.081 lb/in³ (2.2 kg/dm³)

**DENSITY**

- **Density**
  25 or under flame spread per ASTM E84

**WHAT ARE THE PROPERTIES OF ZANITE® PLUS?**

- **High Strength Resin**: 1,900 psi (13.1 N/mm²) tensile strength.
- **Chemical Resistance**: Satisfactory to most chemicals and solvents.
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**ROTATING EQUIPMENT BASEPLATES**

Keeping rotating equipment level is essential. BaseTek Zanite® Plus Polymer Concrete Baseplates support steel baseplates in every way. The difference is Zanite® Plus. Using PoxyBase with Zanite® Plus guarantees you unmatched surface flatness compared to Conventional Steel designs and Custom Concrete materials. Zanite® Plus provides significant vibration damping, greater thermal stability, more resistance to bending and displacing and superior corrosion resistance. It is easier and less costly to install, plus requires no maintenance.

**BENEFITS—HERE ON THE LEVEL.**

- **Improved performance lasts longer and operates more efficiently for a healthier bottom line.**

**CUSTOM POLYMER CASTINGS**

- **Casting benefits**
  - Easier to align, level, and straighten (less $)
  - Eliminates regular maintenance

- **Installation**
  - Will not require any special tools or equipment
  - Compatible with comparable features will result in a system which would yield a product with similar properties as the PoxyBase.

**COMPARATIVE COSTS**

Comparative costs include baseplate, 316SS drip pan, sandblast and 2-part epoxy system which would yield a product with similar properties as the PoxyBase. Comparative costs include baseplate, 316SS drip pan, sandblast and 2-part epoxy system which would yield a product with similar properties as the PoxyBase.

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